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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,540	04/15/2005	Stanka Perc	4061-27PUS	1415
	7590 06/29/2009 NTANI, LIEBERMAN & PAVANE LLP		EXAMINER	
551 FIFTH AVENUE SUITE 1210 NEW YORK, NY 10176			JEAN-LOUIS, SAMIRA JM	
			ART UNIT	PAPER NUMBER
			1617	
			MAIL DATE	DELIVERY MODE
			06/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/531,540	PERC ET AL.
Office Action Summary	Examiner	Art Unit
	SAMIRA JEAN-LOUIS	1617
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 30 I This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 34-51 is/are pending in the application 4a) Of the above claim(s) is/are withdrage 5) Claim(s) is/are allowed. 6) Claim(s) 34-51 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin	awn from consideration. For election requirement.	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Continuation Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/30/09 has been entered.

Response to Arguments

This Office Action is in response to the amendment submitted on 03/30/09.

Claims 34-51 are pending in the applications, with claims 1-31 having being cancelled.

Accordingly, claims 34-51 are being examined on the merits herein.

Receipt of the aforementioned amended claims is acknowledged and has been entered.

The Examiner further acknowledges that given the cancellation of claims 18-32, the rejection of such claims under 35 U.S.C. § 102(b) and 103(a) are hereby withdrawn.

Applicant's arguments against the 35 U.S.C. §103(a) rejection of claim 34 over Morris as evidenced by Nakajima has been fully considered. Applicant argues that the claim is directed to an uncoated olanzapine while Morris teaches a coated olanzapine. Applicant further argues that Morris consistently emphasizes the criticality of coating

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olanzapine with a suitable polymer and thus teaches one of ordinary skill in the art is taught away from having an uncoated olanzapine. Such arguments are however not persuasive as Morris does teach that uncoated olanzapine are well within the purview of the skilled artisan. Moreover, Morris teaches that uncoated olanzapine does not show any signs of discoloration unless the bottle is opened and such discoloration occurs in 5 days. Consequently, the Examiner contends that it is indeed obvious to one of ordinary skill in the art to formulate the composition using uncoated olanzapine if one of ordinary skill is targeting such olanzapine for rapid use and thus such discoloration would not come into play. Moreover, as applicant also points outs, uncoated olanzapine results in discoloration when it comes into contact with certain excipients. Given that Morris teaches the exact same ingredients as applicant, the Examiner therefore contends that no such discoloration would occur if one of ordinary skill in the art opts to utilize the uncoated olanzapine along with the specific excipients discussed by Morris. As for applicant's argument that the unused uncoated olanzapine suggested by the Examiner would cause unnecessary waste and would not result in reasonable expectation of success, the Examiner again disagrees as unnecessary waste does not preclude one of ordinary skill in the art to formulate the composition of Morris using uncoated olanzapine. Again, the Examiner reiterates the fact that if the uncoated olanzapine is rapidly consumed, the discoloration issue would thus be moot. Moreover, the Examiner disagrees with applicant that such discoloration results in instability as both applicant and Morris point out that the discoloration does not produce an increase in the number of total related substances and thus implying that the uncoated olanzapine is indeed

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stable (see Morris, pg. 2, lines 14-15). Consequently, the Examiner asserts that Morris as evidenced by Nakajima does indeed render obvious applicant's invention and the rejection of claim 34 is therefore maintained.

For the foregoing reasons, the 35 U.S.C. § 102(b) and 103(a) rejections of claims 18-32 are withdrawn while the rejection of claim 34 is maintained. However, in view of applicant's amendment, the following modified 103 (a) Non-Final rejections are being made.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 34-51 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Morris et al. (EP 0 830 858 A1, previously cited) as evidenced by Nakajima et al. (U.S. 3,926,817, previously cited).

Morris et al. teach an oral formulation where the active ingredient olanzapine is subcoated and mixed with acceptable excipients (instant claim 34, see abstract and pg. 2, lines 49). The anhydrous form of olanzapine (see pg. 2, lines 54-55) was found to

overcome the undesirable discoloration problems of the prior art and found to be stable due to the subcoating of the active ingredient (see pg. 2, lines 35-37 and line 50). The formulation is preferably in an uncoated tablet form (instant claim 32; pg. 8, example 3). Morris et al. further teach that the oral formulation can contain diluents such as lactose, binders such as crospovidone and microcrystalline cellulose, disintegrants such as crospovidone, and lubricants and glidants such as magnesium stearate (instant claims 42-45). Morris et al. further teach that the subcoated form II of olanzapine was used (instant claims 48; see pg. 7, Preparation 2, Form II, lines 15-23) and mixed with 232.12 mg lactose (i.e. 71.4% of b component or oligosaccharide), 13 mg (i.e. 4%) hydroxypropyl cellulose and 40 mg (i.e. 12.3% binder/disintegrant) microcrystalline cellulose (i.e. a total of 16.3% polysaccharide or component (c) or binders), 16.25 mg of crospovidone (i.e. 5% binder) and 1.63 mg of magnesium stearate (i.e. 0.5% lubricant and glidant) (see instant claims 36-41; see pg. 8, example 3). Importantly, Morris et al. teach that the coated olanzapine is blended (i.e. homogeneously mixed) along with the aforementioned excipients and subsequently compressed with the appropriate tooling on tablet compression equipment (See pg. 8, lines 35-39). Morris et al. do not teach the inclusion of solvent during compression so this meets the limitation of claim 35 of the absence of solvents.

Morris et al. however do not teach the use of an uncoated olanzapine in the oral formulation. Similarly, Morris et al. do not specifically teach a cellulose content of 20-30

weight %, 8-12 weight % of crospovidone, or magnesium stearate in an amount of 0.2-0.4 weight %.

While Morris et al. teach the use of coated olanzapine in the blended mixture, Morris et al. also teach that uncoated olanzapine stored in polyethylene bottles do not show discoloration until exposed to air thus suggesting that non-coated olanzapine can be envisioned in oral formulations. Moreover, Morris et al. further teach that uncoated tablets stored at ambient conditions in amber, high density polyethylene bottles do not show signs of discoloration after 24 months unless the tablets are exposed to open air then discoloration occurs within 5 days (see pg. 4, lines 45-48). Thus, it would be within the skilled artisan to formulate the tablets as uncoated tablets if the intended use is for rapid usage of the formulation before the discoloration period and/or for rapid dissolution.

While the exact percentage of the ingredients are not disclosed by Morris, it is generally noted that differences in concentration do not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). Given that applicant did not point out the criticality of specific percentages of the invention, it is concluded that the normal desire of scientists or artisans to improve upon

what is already generally known would provide the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages.

Nakajima et al., on the other hand, have been provided to demonstrate that magnesium stearate is known in the art to be a glidant as well (see col. 8, claim 7).

With regard to Claim 50, the Examiner contends that the ingredients taught by Morris would necessarily form a matrix due to the nature and combination of the excipients. If however, applicant that such matrix is not formed, it is incumbent upon applicant to demonstrate through comparative results that such matrix is not formed as a result of the combination of ingredients taught by Morris. As for claim 51, since the Examiner suggests the use of uncoated tablets and Morris teaches a blended mixture which results in an uncoated tablet, the examiner again contends that the tablet does not form a layered structure.

Thus, to one of ordinary skill in the art at the time of the invention would have found it obvious to utilize the uncoated olanzapine in the composition of Morris if the desire is for rapid usage before the discoloration time period ensues. Thus, in view of the teachings of Morris et al., one of ordinary skill would have been motivated to utilize uncoated olanzapine in the oral formulation of Morris et al. with the reasonable expectation of providing an oral formulation of olanzapine that rapidly disintegrate and available for fast usage.

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Claims 34-51 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Chakrabarti et al. (U.S. 5,229,382) in view of Rubinstein et al. (Pharmaceutics: The Science of Dosage Form Design, 1988, Tablets, Chapter 18, pgs. 304-321).

Chakrabarti et al. teach the use of olanzapine of formula I in the treatment of disorders of the central nervous system and that the compound has D-1 and D-2 dopamine receptors (see abstract and see col. 2, lines 38-50). Chakrabarti et al. further teach a pharmaceutical composition comprising as active ingredient a compound of formula I or a pharmaceutically acceptable acid addition salt thereof, associated with a pharmaceutically acceptable carrier (see col. 8, lines 16-20). In making the compositions of the invention conventional techniques for the preparation of pharmaceutical compositions may be used wherein the formulation is made in the form of a tablet (see col. 8, lines 20-22 and lines 40-41). Particularly, Chakrabarti et al. teach the active ingredient of formula I is mixed with a carrier which can be a diluent or excipient (see col. 8, lines 22-29). Suitable carriers include lactose, methyl cellulose, starches, talc, and magnesium stearate (see col. 8, lines 26-35). Chakrabarti et al. additionally exemplify the uncoated olanzapine tablet formulation without any solvent in example 4 where the tablet is made by mixing appropriate diluents such as starches at 68%, lubricants and glidants such as magnesium stearate at 0.3%, disintegrants such as microcrystalline cellulose at 25%, and binders such as povidone at 5.0%, and wherein the tablet is then compressed (instant claims 35, 39-41, 44-45, and 48-49; see col. 11, lines 26-39).

povidone, or 3-10 weight % of a disintegrant in the formulation.

Chakrabarti et al., however, do not teach the use of a monosaccharide as the diluent or the use of 70-80% lactose as the diluent in the oral formulation. Similarly, Chakrabarti et al. do not specifically teach a 3-10 weight % of a binder, 8-12 weight % of

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Rubinstein et al. teach that a tablet just does not contain the active ingredient (i.e. olanzapine) but also includes other substances known as excipients which have specific functions (see pg. 309, right col., paragraph 2). Particularly, Rubinstein et al. teach the monosaccharide, lactose, as the principal diluent used in the art for bulking the tablet (see pg. 309, right col., paragraph 3). Additionally, Rubinstein et al. teach starches as well-known binding agents and diluents for bulking and as adhesives (see pg. 310, right col., paragraphs 3 and last paragraph; and left col., paragraph 1). Additionally, Rubinstein teaches the use of glidants in tablets to improve flow properties (see pg. 311, left col., last paragrah). Rubinstein et al. particularly teach that the most commonly used and effective glidant is silica at a concentration of 0.1-0.5 % (see pg. 311, left col., last paragraph).

While Chakrabarti does not specifically teach the exact percentages of the ingredients, it is well within the purview of the skill of the artisan at the time of the invention to adjust the concentration and percentage of the ingredients in the composition during the course of routine experimentation so as to obtain the desirable type of product.

While the exact percentage of the ingredients are not disclosed by Chakrabarti, it is generally noted that differences in concentration do not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). Given that applicant did not point out the criticality of specific percentages of the invention, it is concluded that the normal desire of scientists or artisans to improve upon what is already generally known would provide the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages.

With regard to Claim 50, the Examiner contends that the ingredients taught by Chakrabarti would necessarily form a matrix due to the nature and combination of the excipients. If however, applicant that such matrix is not formed, it is incumbent upon applicant to demonstrate through comparative results that such matrix is not formed as a result of the combination of ingredients taught by Chakrabarti. As for claim 51, since Chakrabarti does not teach coated olanzapine and Chakrabarti teaches a blended mixture which results in an uncoated tablet, the examiner again contends that the tablet does not form a layered structure.

Thus, to one of ordinary skill in the art at the time of the invention would have found it obvious to utilize the uncoated olanzapine in the composition of Chakrabarti

along with the carriers taught by Chakrabarti in combination since Rubenstein teaches these carriers as well-known excipients in tablet formulations. Thus, in view of the teachings of Chakrabarti et al. and Rubenstein et al., one of ordinary skill would have been motivated to utilize uncoated olanzapine along with carriers taught by Chakrabarti in combination in the oral formulation with the reasonable expectation of providing an oral formulation of olanzapine that is effective in the treatment of central nervous system disorders.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samira Jean-Louis whose telephone number is 571-270-3503. The examiner can normally be reached on 7:30-6 PM EST M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/S. J. L. /

Examiner, Art Unit 1617

06/25/2009

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1617